

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> (Not for submission under 37 CFR 1.99)		Application Number	10797019
		Filing Date	2004-03-11
		First Named Inventor	Saville
		Art Unit	1657
		Examiner Name	Gough, Tiffany Maureen
		Attorney Docket Number	27462

### U.S. PATENTS

Examiner Initial*	Cite No	Patent Number	Kind Code <sup>1</sup>	Issue Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear
	1					

If you wish to add additional U.S. Patent citation information please click the Add button.

### U.S. PATENT APPLICATION PUBLICATIONS

Examiner Initial*	Cite No	Publication Number	Kind Code <sup>1</sup>	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear
	1					

If you wish to add additional U.S. Published Application citation information please click the Add button.

### FOREIGN PATENT DOCUMENTS

Examiner Initial*	Cite No	Foreign Document Number <sup>3</sup>	Country Code <sup>2i</sup>	Kind Code <sup>4</sup>	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear	T <sup>5</sup>
	1							<input type="checkbox"/>

If you wish to add additional Foreign Patent Document citation information please click the Add button.

### NON-PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>5</sup>

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**  
( Not for submission under 37 CFR 1.99)

Application Number	10797019
Filing Date	2004-03-11
First Named Inventor	Saville
Art Unit	1657
Examiner Name	Gough, Tiffany Maureen
Attorney Docket Number	27462

1	LILJEDAHN, "Evaluation of Chromatographic Media for Membrane Protein Purification," MSc. Thesis, Uppsala University School of Engineering, 2001, pp 1-20	<input type="checkbox"/>
2	KERKHOFF et al., " Solubilization, Partial Purification and Photolabeling of the Integral Membrane Protein Lysophospholipid: acyl-CoA Acyltransferase (LAT)," Eur. J. Biochem, 267, 6339-6345 (2000)	<input type="checkbox"/>
3	Cornell lab manual for BIOBM330. <a href="http://instruct1.cit.cornell.edu/Courses/biobm330/proflab/Strategy.html">http://instruct1.cit.cornell.edu/Courses/biobm330/proflab/Strategy.html</a>	<input type="checkbox"/>
4	Instructional materials for the MATC Biotechnology program in Madison, WI <a href="http://matcmadison.edu/biotech/resources/proteins/labManual/chapter_1.htm">http://matcmadison.edu/biotech/resources/proteins/labManual/chapter_1.htm</a>	<input type="checkbox"/>
5	WINGFIELD et al., "Purification and characterization of a methionine-specific aminopeptidase from Salmonella typhimurium, Eur. J Biochem. 180.23-32 (1989)	<input type="checkbox"/>
6	MACKAY et al., "Identification and Isolation of a 155-KDa Protein with Neuropathy Target Esterase Activity," Fundamental and Applied Toxicology, vol 30, pp23 – 30, (1996)	<input type="checkbox"/>
7	PIMENOV et al., "The Adsorption and Deactivation of Microorganisms by Activated Carbon Fiber," Separation Science and Technology 36(15), 3385-3394, (2001)	<input type="checkbox"/>
8	HYDAMAKA et al., "Control of Color Problems During Recycling of Food Process Waters," Food Science Department at the University of Manitoba, pp. 237-256	<input type="checkbox"/>
9	KELLY, et al., "The Use of Circular Dichroism in the Investigation of Protein Structure and Function," Curr. Protein and Peptide Sci., 1, 349-384, (2000)	<input type="checkbox"/>
10	LENDENMEN, et al., "2-Aminophenol 1,6-Dioxygenase: a Novel Aromatic Ring Cleavage Enzyme Purified from Pseudomonas pseudoalcaligenes JS45," J. Bacteriol., pp6227 – 6232, (1996)	<input type="checkbox"/>
11	CHEN et al., "D-Ribulose-5-Phosphate 3-Epimerase: Cloning and Heterologous Expression of the Spinach Gene, and Purification and Characterization of the Recombinant Enzyme," Plant Physiol. 118: 199–207, (1998)	<input type="checkbox"/>

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**  
(Not for submission under 37 CFR 1.99)

Application Number	10797019
Filing Date	2004-03-11
First Named Inventor	Saville
Art Unit	1657
Examiner Name	Gough, Tiffany Maureen
Attorney Docket Number	27462

12	WALSH, "Proteins: Biochemistry and Biotechnology," Wiley, West Sussex, England. pp 156-161 (2002)	<input type="checkbox"/>
13	SADANA, "Bioseparation of Proteins," Academic Press, San Diego, pp. 1-15, 135, 136, 178, 187, and 245 (1998)	<input type="checkbox"/>
14	LADISCH, et. al., "Protein Purification: From Molecular Mechanisms to Large Scale Processes," ACS Symposium Series 427 (1990)	<input type="checkbox"/>
15	BAILON, et. al., "Recovery of Recombinant Proteins by Immunoaffinity Chromatography", pp 150-167. (Note-included in LADISH, ref. no. 14 above)	<input type="checkbox"/>
16	HARRISON, "Protein Purification Process Engineering," Marcel Dekker, New York, pp. 6, 7, 44, 45, 52, 53, 128-131, 136, 137, 146, 147, 152-155, 172-175, 210 and 211(1994)	<input type="checkbox"/>
17	STEIN, "Fundamentals of Protein Biotechnology," Marcel Dekker, New York, pp. 145, 161, and 162 (1990)	<input type="checkbox"/>
18	WHEELWRIGHT, "Protein Purification: Design and Scale up of Downstream Processing," Hanser Publishers, Munich, pp. 32, 33, 62, 63, 80, 82, 172, and 186 (1991)	<input type="checkbox"/>
19	DAVIS, "Covalent immobilisation of laccase on activated carbon for phenolic effluent treatment", Appl Microbiol Biotechnol (1992) 37:474-479	<input type="checkbox"/>
20	SOTIROPOULOU, et. al., "Lowering the detection limit of the acetylcholinesterase biosensor using a nanoporous carbon matrix", Analytica Chimica Acta 530 (2005) 199-204	<input type="checkbox"/>
21	KIBARER, et. al., "Optimization studies on the features of an activated charcoal-supported urease system, Biomaterials". Vol. 17, no. 15, pp. 1473-1479. (1996)	<input type="checkbox"/>
22	ROTH, et. al., "β-Galactosidases (Escherichia coli) with Double Substitutions Show That Tyr-503 Acts Independently of Glu-461 but Cooperatively with Glu-537, Journal of Protein Chemistry, Vol. 22, Nos. 7/8, November 2003	<input type="checkbox"/>

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**  
( Not for submission under 37 CFR 1.99)

Application Number	10797019
Filing Date	2004-03-11
First Named Inventor	Saville
Art Unit	1657
Examiner Name	Gough, Tiffany Maureen
Attorney Docket Number	27462

23	MAJUNATH, et. al., "Fungal Glucoamylases," J. Appl. Biochem., vol 5, pp. 235 - 260 (1983)	<input type="checkbox"/>
24		<input type="checkbox"/>

If you wish to add additional non-patent literature document citation information please click the Add button

**EXAMINER SIGNATURE**

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> See Kind Codes of USPTO Patent Documents at [www.USPTO.GOV](http://www.USPTO.GOV) or MPEP 901.04. <sup>2</sup> Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>3</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>4</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>5</sup> Applicant is to place a check mark here if English language translation is attached.

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**  
(Not for submission under 37 CFR 1.99)

Application Number	10797019
Filing Date	2004-03-11
First Named Inventor	Saville
Art Unit	1657
Examiner Name	Gough, Tiffany Maureen
Attorney Docket Number	27462

**CERTIFICATION STATEMENT**

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

- ☐ That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

OR

- ☐ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

- ☒ See attached certification statement.
- ☐ Fee set forth in 37 CFR 1.17 (p) has been submitted herewith.
- ☐ None

**SIGNATURE**

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/JSM/	Date (YYYY-MM-DD)	2007-05-02
Name/Print	Jeffrey S. Melcher	Registration Number	35950

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

## Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these records.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.